

Listing of Claims

1. (Currently Amended) A transgenic plant comprising a plant transformation vector comprising a nucleotide sequence that encodes ~~or is complementary to a sequence that encodes a~~ HI0103.1 polypeptide comprising:
 - a) the amino acid sequence set forth as SEQ ID NO: 2; or
 - b) an amino acid sequence having at least 95% sequence identity to the amino acid sequence of SEQ ID NO: 2;
whereby the transgenic plant has a ~~high~~higher oil phenotype content relative to a plant of the same species that does not comprise the plant transformation vector.
2. (Original) The transgenic plant of claim 1, which is selected from the group consisting of rapeseed, soy, corn, sunflower, cotton, cocoa, safflower, oil palm, coconut palm, flax, castor and peanut.
3. (Original) A plant part obtained from the plant according to claim 1.
4. (Original) The plant part of claim 3, which is a seed.
5. (Previously Presented) A method of producing oil comprising growing the transgenic plant of claim 1 and recovering oil from said plant.
6. (Currently Amended) A method of producing a high oil phenotype in a plant, said method comprising: a) introducing into progenitor cells of the plant a plant transformation vector comprising a nucleotide sequence that encodes ~~or is complementary to a sequence that encodes a~~ HI0103.1 polypeptide comprising the amino acid sequence set forth as SEQ ID NO: 2; or an amino acid sequence having at least 95% sequence identity to the amino acid sequence of SEQ ID NO: 2; and b) growing the transformed progenitor cells to produce a transgenic plant,

wherein said nucleotide sequence is expressed, and said transgenic plant exhibits ~~an altered~~
~~a higher oil content phenotype~~ relative to a plant of the same species that does not comprise the plant
transformation vector, thereby producing a high oil phenotype.

7. (Original) A plant obtained by a method of claim 6.

8. (Original) The plant of claim 7, which is selected from the group consisting of
rapeseed, soy, corn, sunflower, cotton, cocoa, safflower, oil palm, coconut palm, flax, castor and
peanut.

9.-11. (Canceled)

12. (Currently Amended) The transgenic plant of claim 1, wherein the nucleotide sequence
encodes ~~or is complementary to a sequence that encodes~~ a HI0103.1 polypeptide comprising an amino
acid sequence having at least 95% sequence identity to the amino acid sequence of SEQ ID NO: 2.

13. (Currently Amended) The transgenic plant of claim 12, wherein the nucleotide
sequence encodes ~~or is complementary to a sequence that encodes~~ a HI0103.1 polypeptide comprising
the amino acid sequence set forth as SEQ ID NO: 2.

14. (Currently Amended) The transgenic plant of claim 13, wherein the nucleotide
sequence that encodes ~~or is complementary to a sequence that encodes~~ a HI0103.1 polypeptide consists
of the amino acid sequence set forth as SEQ ID NO: 2.

15. (Currently Amended) The method of claim 6, wherein the nucleotide sequence encodes
~~or is complementary to a sequence that encodes~~ a HI0103.1 polypeptide comprising an amino acid
sequence having at least 95% sequence identity to the amino acid sequence of SEQ ID NO: 2.

16. (Currently Amended) The method of claim 15, wherein the nucleotide sequence encodes ~~or is complementary to a sequence that encodes~~ a HI0103.1 polypeptide comprising the amino acid sequence set forth as SEQ ID NO: 2.

17. (Currently Amended) The method of claim 16, wherein the nucleotide sequence that encodes ~~or is complementary to a sequence that encodes~~ a HI0103.1 polypeptide consists of the amino acid sequence set forth as SEQ ID NO: 2.